

## SUBJECT INDEX TO VOLUME 94

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- minimum analgesic dose of epidural sufentanil for first-stage labor analgesia: a comparison between spontaneous and prostaglandin-induced labors in nulliparous women (CI) [Capogna et al.], 740
- minimum local analgesic dose of intrathecal bupivacaine in labor and the effect of intrathecal fentanyl (CI) [Stocks et al.], 593
- opioids inhibit febrile responses in humans, whereas epidural analgesia does not: an explanation for hyperthermia during epidural analgesia (CI) [Negishi et al.], 218
- Epileptogenesis**
- intraoperative seizures in cardiac surgical patients undergoing deep hypothermic circulatory arrest monitored with EEG (CR) [Cheung et al.], 1143
- Epinephrine**
- decrease in T-wave amplitude without hemodynamic changes after intravascular injection of an epinephrine test dose (CR) [Tanaka and Nishikawa], 365
- epinephrine increases the neurotoxic potential of intrathecally administered lidocaine in the rat (LI) [Hashimoto et al.], 876
- Equipment and technology**
- a closed xenon anesthesia delivery system (LR) [Dingley et al.], 173
- compliance compensation of the Narkomed 6000 explained (CO) [Feldman and Smith], 543
- compliance compensation of the Narkomed 6000 explained (CO) [Stevenson et al.], 544
- CO<sub>2</sub> *via* CPAP mask? a near disaster (CO) [Campagna et al.], 544
- electrical short circuit as a possible cause of death in patients on PCA machines: report on an opiate overdose and a possible preventive remedy (CO) [Doyle et al.], 940
- technique for using video microscopy and indicator dilution for repeated measurements of cardiac output in small animals (LI) [Rivers et al.], 489
- a warm air blanket causes intraoperative airway obstruction (CR) [Warters et al.], 169
- Ergonovine**
- cardiac arrest and myocardial infarction induced by postpartum intravenous ergonovine administration (CR) [Tsui et al.], 363
- Etomidate**
- inhibitory effects of etomidate and ketamine on endothelium-dependent relaxation in canine pulmonary artery (LI) [Ogawa et al.], 668
- Evidence-based medicine**
- the Cochrane Anesthesia Review Group (CO) [Møller et al.], 184
- Evoked potentials**
- effect of propofol on H-reflex in humans (CI) [Kerz et al.], 32
- the midlatency auditory evoked potentials predict responsiveness to verbal commands in patients emerging from anesthesia with xenon, isoflurane, and sevoflurane but not with nitrous oxide (CI) [Goto et al.], 782
- rapid extraction of middle-latency auditory-evoked potentials (CO) [Jensen and Litvan], 718
- Eye function and disease**
- ischemic optic neuropathy after liver transplantation (CR) [Janicki et al.], 361
- ophthalmic anesthesia (CO) [Pinsker], 376
- peribulbar *versus* retrobulbar anesthesia for ophthalmic surgery: an anatomical comparison of extraconal and intraconal injections (CI) [Ripart et al.], 56
- sub-tenon eye block: approaching the ideal? (CO) [Ripart et al.], 377
- sub-tenon eye block: approaching the ideal? (CO) [Verma and Makker], 376
- on the use of topical anesthesia for cataract extraction surgery (CO) [Sosis], 376
- Eye surgery**
- ophthalmic anesthesia (CO) [Pinsker], 376
- peribulbar *versus* retrobulbar anesthesia for ophthalmic surgery: an anatomical comparison of extraconal and intraconal injections (CI) [Ripart et al.], 56
- sub-tenon eye block: approaching the ideal? (CO) [Ripart et al.], 377
- sub-tenon eye block: approaching the ideal? (CO) [Verma and Makker], 376

- on the use of topical anesthesia for cataract extraction surgery (CO) [Sosis], 376

## F

**Fat embolism**

- prolonged coma after unreamed, locked nailing of femoral shaft fracture (CR) [Byrick et al.], 163

**Fentanyl**

- cardiovascular effects of sevoflurane, isoflurane, halothane, and fentanyl-midazolam in children with congenital heart disease: an echocardiographic study of myocardial contractility and hemodynamics (CI) [Rivenes et al.], 223  
minimum local anesthetic dose of intrathecal bupivacaine in labor and the effect of intrathecal fentanyl (CI) [Stocks et al.], 593

**Fibrinolysis**

- perioperative activation of hemostasis in vascular surgery patients (CI) [Samama et al.], 74

**Fluids and electrolytes**

- abnormal serum sodium and chloride concentrations may contribute to cognitive dysfunction during severe isovolemic anemia (CO) [Weiskopf et al.], 716  
abnormal serum sodium and chloride concentrations may contribute to cognitive dysfunction during severe isovolemic anemia (CO) [Williams], 716

**Fluorocarbons**

- effect of increasing perfluorocarbon dose on VA/Q distribution during partial liquid ventilation in acute lung injury (LI) [Lim et al.], 637  
partial liquid ventilation reduces fluid filtration of isolated rabbit lungs with acute hydrochloric acid-induced edema (LI) [Loer and Tarnow], 1045  
perfluorohexane attenuates proinflammatory and procoagulatory response of activated monocytes and alveolar macrophages (LI) [Koch et al.], 101

## G

**GABA and GABA receptors**

- agent-selective effects of volatile anesthetics on GABA<sub>A</sub> receptor-mediated synaptic inhibition in hippocampal interneurons (LI) [Nishikawa and MacIver], 340  
anesthetic-like interaction of the sleep-inducing lipid oleamide with voltage-gated sodium channels in mammalian brain (LI) [Nicholson et al.], 120  
anesthetic properties of 4-iodopropofol: implications for mechanisms of anesthesia (LI) [Lingamaneni et al.], 1050  
divergence of volatile anesthetic effects in inhibitory neurotransmitter receptors (LI) [Greenblatt and Meng], 1026  
electrophysiologic evidence for increased endogenous GABAergic but not glycinergic inhibitory tone in the rat spinal nerve ligation model of neuropathy (LI) [Kontinen et al.], 333  
isoflurane blocks synaptic plasticity in the mouse hippocampus (LI) [Simon et al.], 1058

**Gas anesthesia and anesthetics. See Inhalation anesthesia and anesthetics; Volatile anesthetics****Gastrointestinal function and disease**

- critical hematocrit in intestinal tissue oxygenation during severe normovolemic hemodilution (LI) [van Bommel et al.], 152  
diffusion of xenon and nitrous oxide into the bowel (LI) [Reinelt et al.], 475  
epidural anesthesia retards intestinal acidosis and reduces portal vein endotoxin concentrations during progressive hypoxia in rabbits (LI) [Ai et al.], 263  
the use of intravenous nitroglycerin in a case of spasm of the sphincter of Oddi during laparoscopic cholecystectomy (LI) [Toyoyama et al.], 708

**Gender factors**

- gender-based differences in Na<sup>+</sup>-K<sup>+</sup> adenosine triphosphatase activity occur in the microcirculation of the diabetic rat brain (LR) [Sieber et al.], 372

**Gene therapy**

- gene therapy for the management of pain: part I: methods and strategies (RA) [Wu et al.], 1119  
is gene therapy in our future? (EV) [Bernards], 947

**Geriatric patients**

- nosocomial infections and outcome of critically ill elderly patients after surgery (CI) [Stéphan et al.], 407

**Glucose and glucose metabolism**

- CSE in labor and hypoglycemia (CO) [Ramanathan], 1151  
CSE in labor and hypoglycemia (CO) [Verma and Plaat], 1150  
effects of xenon on cerebral blood flow and cerebral glucose utilization in rats (LI) [Frietsch et al.], 290

**Glutamate and glutamate receptors**

- effect of the deficiency of spinal PSD-95/SAP90 on the minimum alveolar anesthetic concentration of isoflurane in rats (LI) [Tao and Johns], 1010

**Glycine and glycine receptors**

- electrophysiologic evidence for increased endogenous GABAergic but not glycinergic inhibitory tone in the rat spinal nerve ligation model of neuropathy (LI) [Kontinen et al.], 333

**Gynecology**

- preoperative anxiolysis and postoperative recovery in women undergoing abdominal hysterectomy (CI) [Kain et al.], 415

## H

**Halothane**

- cardiovascular effects of sevoflurane, isoflurane, halothane, and fentanyl-midazolam in children with congenital heart disease: an echocardiographic study of myocardial contractility and hemodynamics (CI) [Rivenes et al.], 223  
halothane increases smooth muscle protein phosphatase in airway smooth muscle (LI) [Hanazaki et al.], 129  
low concentrations of halothane increase response to a noxious thermal stimulus and attenuate the antinociceptive effect of intraventricular but not intrathecal morphine (LI) [Drasner], 298

**Heart arrhythmias. See Heart rhythm and dysrhythmias****Heart dysrhythmias. See Heart rhythm and dysrhythmias****Heart function and disease**

- anesthesia-related cardiac arrest in children (CO) [Coté], 933  
the Cardiac Anesthesia Risk Evaluation score: a clinically useful predictor of mortality and morbidity after cardiac surgery (CI) [Dupuis et al.], 194  
cardiac arrest after succinylcholine: mortality greater with rhabdomyolysis than receptor upregulation (RA) [Gronert], 523  
cardiac arrest and myocardial infarction induced by postpartum intravenous ergonovine administration (CR) [Tsui et al.], 363  
cardiovascular effects of sevoflurane, isoflurane, halothane, and fentanyl-midazolam in children with congenital heart disease: an echocardiographic study of myocardial contractility and hemodynamics (CI) [Rivenes et al.], 223  
cardiovascular responses to the induction of mild hypothermia in the presence of epidural anesthesia (LI) [Yoshida et al.], 678  
did anesthetics trigger cardiac arrests in patients with occult myopathies? (CO) [Larach et al.], 933  
did anesthetics trigger cardiac arrests in patients with occult myopathies? (CO) [Murray], 934  
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effects of isoflurane on intracellular calcium and myocardial cross-bridge kinetics in tetanized papillary muscles (LI) [Hannon et al.], 856  
effects of ketamine and its isomers on ischemic preconditioning in the isolated rat heart (LI) [Molajavi et al.], 623  
electrocardiographic exercise stress testing for cardiac risk management in patients undergoing noncardiac surgery (CI) [Gauss et al.], 38  
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is coronary artery disease equivalent to ischemia? (CCC) [Woehlick et al.], 161  
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- modeling population pharmacokinetics of lidocaine: should cardiac output be included as a patient factor? (CI) [Kuipers et al.], 566
- propofol increases myofilament  $Ca^{2+}$  sensitivity and intracellular pH via activation of  $Na^+-H^+$  exchange in rat ventricular myocytes (LI) [Kanaya et al.], 1096
- relation between initial blood distribution volume and propofol induction dose requirement (CI) [Kazama et al.], 205
- role of heparin and nitric oxide in the cardiac and regional hemodynamic properties of protamine in conscious chronically instrumented dogs (LI) [Oguchi et al.], 1016
- technique for using video microscopy and indicator dilution for repeated measurements of cardiac output in small animals (LI) [Rivers et al.], 489
- Heart rate**
- electrocautery-induced tachycardia in a rate-responsive pacemaker (CR) [Wong and Middleton], 710
- Heart rhythm and dysrhythmias**
- electrocautery-induced tachycardia in a rate-responsive pacemaker (CR) [Wong and Middleton], 710
- Hemodialysis**
- continuous veno-venous hemofiltration for the immediate management of massive rhabdomyolysis after fulminant malignant hyperthermia in a bodybuilder (CR) [Schenk et al.], 1139
- Hemodilution**
- abnormal serum sodium and chloride concentrations may contribute to cognitive dysfunction during severe isovolemic anemia (CO) [Weiskopf et al.], 716
- abnormal serum sodium and chloride concentrations may contribute to cognitive dysfunction during severe isovolemic anemia (CO) [Williams], 716
- critical hematocrit in intestinal tissue oxygenation during severe normovolemic hemodilution (LI) [van Bommel et al.], 152
- efficacy of acute normovolemic hemodilution assessed as a function of fraction of blood volume lost (CI) [Weiskopf], 439
- Hemodynamics. See Circulatory physiology and hemodynamics**
- Hemoglobin**
- hemoglobin desaturation after succinylcholine-induced apnea: a study of the recovery of spontaneous ventilation in healthy volunteers (CI) [Heier et al.], 754
- Hemorrhagic shock**
- influence of hemorrhagic shock on remifentanyl: a pharmacokinetic and pharmacodynamic analysis (LI) [Johnson et al.], 322
- Hemostasis. See Blood coagulation**
- Heparin**
- anticoagulation during cardiopulmonary bypass in patients with heparin-induced thrombocytopenia type II and renal impairment using heparin and the platelet glycoprotein IIb/IIIa antagonist tirofiban (CI) [Koster et al.], 245
- fatal thrombosis associated with a hemi-Fontan procedure, heparin-protamine reversal, and aprotinin (CR) [Heindel et al.], 369
- role of heparin and nitric oxide in the cardiac and regional hemodynamic properties of protamine in conscious chronically instrumented dogs (LI) [Oguchi et al.], 1016
- Hiccups**
- negative-pressure pulmonary edema in a child with hiccups during induction (CO) [Mandal], 378
- negative-pressure pulmonary edema in a child with hiccups during induction (CO) [Stuth and Stucke], 379
- History**
- anesthesiology's greatest generation? (EV) [Bacon et al.], 725
- the role of World War II and the European Theater of Operations in the development of anesthesiology as a physician specialty in the USA (SA) [Waisel], 907
- Hydromorphone**
- pharmacodynamics of orally administered sustained-release hydromorphone in humans (CI) [Angst et al.], 63
- Hypercapnia. See Carbon dioxide (CO<sub>2</sub>)**
- Hypertension and antihypertensives**
- mechanisms of isoflurane-mediated hyperpolarization of vascular smooth muscle in chronically hypertensive and normotensive conditions (LI) [Stekiel et al.], 496
- Hyperthermia. See also Malignant hyperthermia**
- opioids inhibit febrile responses in humans, whereas epidural analgesia does not: an explanation for hyperthermia during epidural analgesia (CI) [Negishi et al.], 218
- Hypnosis**
- only explicit memory seems affected by depth of hypnotic state (CO) [Phaf], 380
- Hypoglycemia. See Glucose and glucose metabolism**
- Hypotension**
- eliminating blood transfusions: what about hypotensive anesthesia? (CO) [Klowden et al.], 541
- eliminating blood transfusions: what about hypotensive anesthesia? (CO) [Spahn and Casutt], 542
- a normal aPTT does not guarantee adequate coagulation factor levels (CO) [Teruya et al.], 541
- S(+)-ketamine increases muscle sympathetic activity and maintains the neural response to hypotensive challenges in humans (CI) [Kienbaum et al.], 252
- Hypothermia**
- anesthetic concentrations of propofol protect against oxidative stress in primary astrocyte cultures: comparison with hypothermia (LI) [Peters et al.], 313
- cardiovascular responses to the induction of mild hypothermia in the presence of epidural anesthesia (LI) [Yoshida et al.], 678
- the effect of hypothermia on isoflurane MAC in children (CI) [Liu et al.], 429
- effect of hypothermia on the hepatic uptake and biliary excretion of vecuronium in the isolated perfused rat liver (LI) [Beaufort et al.], 270
- intraoperative seizures in cardiac surgical patients undergoing deep hypothermic circulatory arrest monitored with EEG (CR) [Cheung et al.], 1143
- Hypoxia**
- epidural anesthesia retards intestinal acidosis and reduces portal vein endotoxin concentrations during progressive hypoxia in rabbits (LI) [Ai et al.], 263
- inhaled nitric oxide improves survival rates during hypoxia in a sickle cell (SAD) mouse model (LI) [Martinez-Ruiz et al.], 1113
- I**
- Imaging and radiology**
- comparison of multiplane transesophageal echocardiography and contrast-enhanced helical CT in the diagnosis of blunt traumatic cardiovascular injuries (CI) [Vignon et al.], 615
- dose-dependent regional cerebral blood flow changes during remifentanyl infusion in humans: a positron emission tomography study (CI) [Wagner et al.], 732
- study of the "sniffing position" by magnetic resonance imaging (CI) [Adnet et al.], 83
- subanesthetic isoflurane affects task-induced brain activation in a highly specific manner (CI) [Heinke and Schwarzbauer], 973
- Immunology and inflammation**
- administration of endocannabinoids prevents a referred hyperalgesia associated with inflammation of the urinary bladder (LI) [Farquhar-Smith and Rice], 507
- analgesic and antiinflammatory effects of two novel  $\kappa$ -opioid peptides (LI) [Binder et al.], 1034
- attenuation of the tumor-promoting effect of surgery by spinal blockade in rats (LI) [Bar-Yosef et al.], 1066
- decreased endotoxin immunity is associated with greater mortality and/or prolonged hospitalization after surgery (CI) [Bennett-Guerrero et al.], 992
- differential behavioral effects of peripheral and systemic morphine and naloxone in a rat model of repeated acute inflammation (LI) [Perrot et al.], 870
- perfluorohexane attenuates proinflammatory and procoagulatory response of activated monocytes and alveolar macrophages (LI) [Koch et al.], 101
- recovery of intraoperative microbicidal and inflammatory functions of alveolar immune cells after a tobacco smoke-free period (CI) [Kotani et al.], 999
- tissue injury and the inflammatory response to pediatric cardiac surgery with cardiopulmonary bypass: a descriptive study (CI) [Chew et al.], 745

**Infants. See Pediatric anesthesia****Infections and infectious disease**

- chlorhexidine *versus* povidone iodine in preventing colonization of continuous epidural catheters in children (CI) [Kinirons et al.], 239
- is ventilator-associated pneumonia an independent risk factor for death? (CI) [Bregoon et al.], 554
- lower respiratory tract (LRT) infection (CO) [Akça ], 1152
- lower respiratory tract (LRT) infection (CO) [Shepherd ], 1152
- nosocomial infections and outcome of critically ill elderly patients after surgery (CI) [Stéphan et al.], 407
- propofol attenuates diaphragmatic dysfunction induced by septic peritonitis in hamsters (LI) [Mikawa et al.], 652
- recovery of intraoperative microbicidal and inflammatory functions of alveolar immune cells after a tobacco smoke-free period (CI) [Kotani et al.], 999
- what's new about ventilator-associated pneumonia (EV) [Kollef], 551

**Inflammation. See Immunology and inflammation****Inhalation anesthesia and anesthetics**

- absence of direct antioxidant effects from volatile anesthetics in primary mixed neuronal-glial cultures (LI) [Kudo et al.], 303
- anesthetic potency and influence of morphine and sevoflurane on respiration in  $\mu$ -opioid receptor knockout mice (LI) [Dahan et al.], 824
- cardiovascular effects of sevoflurane, isoflurane, halothane, and fentanyl-midazolam in children with congenital heart disease: an echocardiographic study of myocardial contractility and hemodynamics (CI) [Rivenes et al.], 223
- comparison of volatile anesthetic actions on intracellular calcium stores of vascular smooth muscle: investigation in isolated systemic resistance arteries (LI) [Akata et al.], 840
- the concentration of isoflurane required to suppress learning depends on the type of learning (LI) [Dutton et al.], 514
- different inhibitory effects of volatile anesthetics on T- and L-type voltage-dependent  $Ca^{2+}$  channels in porcine tracheal and bronchial smooth muscles (LI) [Yamakage et al.], 683
- diffusion of xenon and nitrous oxide into the bowel (LI) [Reinelt et al.], 475
- divergence of volatile anesthetic effects in inhibitory neurotransmitter receptors (LI) [Greenblatt and Meng], 1026
- effect of the deficiency of spinal PSD-95/SAP90 on the minimum alveolar anesthetic concentration of isoflurane in rats (LI) [Tao and Johns], 1010
- the effect of hypothermia on isoflurane MAC in children (CI) [Liu et al.], 429
- effect of probenecid on renal function in surgical patients anesthetized with low-flow sevoflurane (CI) [Higuchi et al.], 21
- the effect of sevoflurane and desflurane on upper airway reactivity (CI) [Klock et al.], 963
- effects of isoflurane on intracellular calcium and myocardial cross-bridge kinetics in tetanized papillary muscles (LI) [Hannon et al.], 856
- effects of xenon on cerebral blood flow and cerebral glucose utilization in rats (LI) [Frietsch et al.], 290
- epidural lidocaine decreases sevoflurane requirement for adequate depth of anesthesia as measured by the Bispectral Index<sup>®</sup> monitor (CI) [Hodgson and Liu], 799
- halothane increases smooth muscle protein phosphatase in airway smooth muscle (LI) [Hanazaki et al.], 129
- isoflurane blocks synaptic plasticity in the mouse hippocampus (LI) [Simon et al.], 1058
- lack of degradation of sevoflurane by a new carbon dioxide absorbent in humans (CI) [Mchaourab et al.], 1007
- low concentrations of halothane increase response to a noxious thermal stimulus and attenuate the antinociceptive effect of intraventricular but not intrathecal morphine (LI) [Drasner], 298
- mathematical modeling of carbon monoxide exposures from anesthetic breakdown: effect of subject size, hematocrit, fraction of inspired oxygen, and quantity of carbon monoxide (LI) [Woehlck et al.], 457
- mechanisms of isoflurane-mediated hyperpolarization of vascular

smooth muscle in chronically hypertensive and normotensive conditions (LI) [Stekiel et al.], 496

- the midlatency auditory evoked potentials predict responsiveness to verbal commands in patients emerging from anesthesia with xenon, isoflurane, and sevoflurane but not with nitrous oxide (CI) [Goto et al.], 782
- minimum alveolar concentration (MAC) of xenon with sevoflurane in humans (CI) [Nakata et al.], 611
- physical factors affecting the production of carbon monoxide from anesthetic breakdown (LI) [Woehlck et al.], 453
- protective effects of volatile agents against methacholine-induced bronchoconstriction in rats (LI) [Habre et al.], 348
- relevant concentrations of inhaled anesthetics for *in vitro* studies of anesthetic mechanisms (SA) [Eger et al.], 915
- response surface modeling of alfentanil-sevoflurane interaction on cardiorespiratory control and Bispectral Index (CI) [Dahan et al.], 982
- speed of recovery and side-effect profile of sevoflurane sedation compared with midazolam (CI) [Ibrahim et al.], 87
- subanesthetic isoflurane affects task-induced brain activation in a highly specific manner (CI) [Heinke and Schwarzbauer], 973
- surgical stimulation shifts EEG concentration-response relationship of desflurane (CI) [Röpcke et al.], 390

**Interleukins**

- opioids inhibit febrile responses in humans, whereas epidural analgesia does not: an explanation for hyperthermia during epidural analgesia (CI) [Negishi et al.], 218
- tissue injury and the inflammatory response to pediatric cardiac surgery with cardiopulmonary bypass: a descriptive study (CI) [Chew et al.], 745

**Intracellular calcium. See Calcium and calcium channels****Intracranial pressure**

- opiates, intracranial pressure, and autoregulation (CO) [Lam and Warner], 177
- opiates, intracranial pressure, and autoregulation (CO) [Nadal and Sahuquillo], 177

**Intravenous anesthesia and anesthetics**

- assessment of depth of anesthesia and postoperative respiratory recovery after remifentanyl- *versus* alfentanil-based total intravenous anesthesia in patients undergoing ear-nose-throat surgery (CI) [Wuesten], 211
- Automated Responsiveness Test (ART) predicts loss of consciousness and adverse physiologic responses during propofol conscious sedation (CI) [Doufas et al.], 585
- cardiac arrest and myocardial infarction induced by postpartum intravenous ergonovine administration (CR) [Tsui et al.], 363
- cytochrome P-450 2B6 is responsible for interindividual variability of propofol hydroxylation by human liver microsomes (LI) [Court et al.], 110
- effect of propofol on H-reflex in humans (CI) [Kerz et al.], 32
- efficacy of propofol to prevent bronchoconstriction: effects of preservative (LI) [Brown et al.], 851
- inhibitory effects of etomidate and ketamine on endothelium-dependent relaxation in canine pulmonary artery (LI) [Ogawa et al.], 668
- no substitute for the intravenous route (EV) [Donati and Guay], 1
- propofol alters the pharmacokinetics of alfentanil in healthy male volunteers (CI) [Mertens et al.], 949
- propofol attenuates diaphragmatic dysfunction induced by septic peritonitis in hamsters (LI) [Mikawa et al.], 652
- propofol increases myofilament  $Ca^{2+}$  sensitivity and intracellular pH *via* activation of  $Na^+$ - $H^+$  exchange in rat ventricular myocytes (LI) [Kanaya et al.], 1096
- propofol potentiates phenylephrine-induced contraction *via* cyclooxygenase inhibition in pulmonary artery smooth muscle (LI) [Ogawa et al.], 833
- pulmonary vascular effects of propofol at baseline, during elevated vasomotor tone, and in response to sympathetic  $\alpha$ - and  $\beta$ -adrenoreceptor activation (LI) [Kondo et al.], 815
- relation between initial blood distribution volume and propofol induction dose requirement (CI) [Kazama et al.], 205

**Intubation. See also Airway management; Endotracheal intubation**



- acromegaly, the Mallampati, and difficult intubation (CO) [Calder], 1149
- acromegaly, the Mallampati, and difficult intubation (CO) [Schmitt et al.], 1150
- comparison of the intubating laryngeal mask airway with the fiberoptic intubation in anticipated difficult airway management (CI) [Langeron et al.], 968
- distinguishing endotracheal and esophageal intubation (CO) [Maleck], 539
- distinguishing endotracheal and esophageal intubation (CO) [Raphael], 539
- large hypopharyngeal tongue: a shared anatomic abnormality for difficult mask ventilation, difficult intubation, and obstructive sleep apnea? (CO) [Chou and Wu], 936
- large hypopharyngeal tongue: a shared anatomic abnormality for difficult mask ventilation, difficult intubation, and obstructive sleep apnea? (CO) [Langeron], 937
- potential damage to the larynx associated with light-guided intubation: a case and series of fiberoptic examinations (CR) [Aoyama et al.], 165
- Ions and ion channels. See also Calcium and calcium channels; Potassium and potassium channels**
- blockade and activation of the human neuronal nicotinic acetylcholine receptors by atracurium and laudanosine (LI) [Chiodini et al.], 643
- gender-based differences in  $\text{Na}^+\text{-K}^+$  adenosine triphosphatase activity occur in the microcirculation of the diabetic rat brain (LR) [Sieber et al.], 372
- local anesthetic inhibition of voltage-activated potassium currents in rat dorsal root ganglion neurons (LI) [Komai and McDowell], 1089
- propofol increases myofilament  $\text{Ca}^{2+}$  sensitivity and intracellular pH via activation of  $\text{Na}^+\text{-H}^+$  exchange in rat ventricular myocytes (LI) [Kanaya et al.], 1096
- Ischemia-reperfusion injury**
- pathophysiology, clinical manifestations, and prevention of ischemia-reperfusion injury (CCC) [Collard and Gelman], 1133
- signal transduction of opioid-induced cardioprotection in ischemia-reperfusion (LI) [McPherson and Yao], 1082
- Isoflurane**
- cardiovascular effects of sevoflurane, isoflurane, halothane, and fentanyl-midazolam in children with congenital heart disease: an echocardiographic study of myocardial contractility and hemodynamics (CI) [Rivenes et al.], 223
- the concentration of isoflurane required to suppress learning depends on the type of learning (LI) [Dutton et al.], 514
- effect of the deficiency of spinal PSD-95/SAP90 on the minimum alveolar anesthetic concentration of isoflurane in rats (LI) [Tao and Johns], 1010
- the effect of hypothermia on isoflurane MAC in children (CI) [Liu et al.], 429
- effects of isoflurane on intracellular calcium and myocardial cross-bridge kinetics in tetanized papillary muscles (LI) [Hannon et al.], 856
- isoflurane blocks synaptic plasticity in the mouse hippocampus (LI) [Simon et al.], 1058
- mechanisms of isoflurane-mediated hyperpolarization of vascular smooth muscle in chronically hypertensive and normotensive conditions (LI) [Stekiel et al.], 496
- the midlatency auditory evoked potentials predict responsiveness to verbal commands in patients emerging from anesthesia with xenon, isoflurane, and sevoflurane but not with nitrous oxide (CI) [Goto et al.], 782
- subanesthetic isoflurane affects task-induced brain activation in a highly specific manner (CI) [Heinke and Schwarzbauer], 973
- J**
- Joint replacement surgery**
- the effect of lumbar plexus block on blood loss and postoperative pain (CO) [Ekatothramis et al.], 716
- the effect of lumbar plexus block on blood loss and postoperative pain (CO) [Stevens et al.], 717
- K**
- Ketamine and phencyclidine**
- effects of ketamine and its isomers on ischemic preconditioning in the isolated rat heart (LI) [Molajavi et al.], 623
- inhibitory effects of etomidate and ketamine on endothelium-dependent relaxation in canine pulmonary artery (LI) [Ogawa et al.], 668
- ketamine, but not  $\text{S}(+)\text{-ketamine}$ , blocks ischemic preconditioning in rabbit hearts *in vivo* (LI) [Müllenheim et al.], 630
- $\text{S}(+)\text{-ketamine}$  increases muscle sympathetic activity and maintains the neural response to hypotensive challenges in humans (CI) [Kienbaum et al.], 252
- Ketorolac**
- preemptive analgesic effects of ketorolac in ankle fracture surgery (CI) [Norman et al.], 599
- Kidney function and disease**
- anticoagulation during cardiopulmonary bypass in patients with heparin-induced thrombocytopenia type II and renal impairment using heparin and the platelet glycoprotein IIb/IIIa antagonist tirofiban (CI) [Koster et al.], 245
- effect of probenecid on renal function in surgical patients anesthetized with low-flow sevoflurane (CI) [Higuchi et al.], 21
- subcutaneous paravertebral block for renal colic (CR) [Nikiforov et al.], 531
- Knockout and transgenic models**
- anesthetic potency and influence of morphine and sevoflurane on respiration in  $\mu$ -opioid receptor knockout mice (LI) [Dahan et al.], 824
- blockade of AMPA receptors and volatile anesthetics: reduced anesthetic requirements in GluR2 null mutant mice for loss of the righting reflex and antinociception but not minimum alveolar concentration (LI) [Joo et al.], 478
- inhaled nitric oxide improves survival rates during hypoxia in a sickle cell (SAD) mouse model (LI) [Martinez-Ruiz et al.], 1113
- sensory processing in the deep spinal dorsal horn of neurokinin-1 receptor knockout mice (LI) [Weng et al.], 1105
- L**
- Labor and delivery. See also Obstetric anesthesia**
- CSE in labor and hypoglycemia (CO) [Ramanathan], 1151
- CSE in labor and hypoglycemia (CO) [Verma and Plaat], 1150
- dose-response study of epidural ropivacaine for labor analgesia (CI) [Lee et al.], 767
- minimum analgesic dose of epidural sufentanil for first-stage labor analgesia: a comparison between spontaneous and prostaglandin-induced labors in nulliparous women (CI) [Capogna et al.], 740
- minimum local analgesic dose of intrathecal bupivacaine in labor and the effect of intrathecal fentanyl (CI) [Stocks et al.], 593
- Laryngeal function and disease**
- large hypopharyngeal tongue: a shared anatomic abnormality for difficult mask ventilation, difficult intubation, and obstructive sleep apnea? (CO) [Chou and Wu], 936
- large hypopharyngeal tongue: a shared anatomic abnormality for difficult mask ventilation, difficult intubation, and obstructive sleep apnea? (CO) [Langeron], 937
- life-threatening upper airway obstruction after tongue base surgery (CR) [Szokol et al.], 532
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- Laryngeal mask airway and COPA**
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- intubating laryngeal mask airway and muscle relaxants: never together? (CO) [Edwards et al.], 1151
- intubating laryngeal mask airway and muscle relaxants: never together? (CO) [van Vlymen et al.], 1151

- a method to improve a gas leak on mask ventilation in the patient with a nasogastric tube (CO) [Noguchi et al.], 545
- pharyngolaryngeal morbidity with the laryngeal mask airway in spontaneously breathing patients: does size matter? (CI) [Grady et al.], 760
- transient lingual and glossopharyngeal nerve injury: a complication of cuffed oropharyngeal airway (CO) [Laffon et al.], 719
- Laryngoscopy**
- comparison of the intubating laryngeal mask airway with the fiberoptic intubation in anticipated difficult airway management (CI) [Langeron et al.], 968
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- effect of cricoid pressure on the success of endotracheal intubation with a lightwand (CI) [Hodgson et al.], 259
- head extension angle required for direct laryngoscopy with the McCoy laryngoscope blade (CO) [Sugiyama et al.], 939
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- large hypopharyngeal tongue: a shared anatomic abnormality for difficult mask ventilation, difficult intubation, and obstructive sleep apnea? (CO) [Chou and Wu], 936
- large hypopharyngeal tongue: a shared anatomic abnormality for difficult mask ventilation, difficult intubation, and obstructive sleep apnea? (CO) [Langeron], 937
- study of the "sniffing position" by magnetic resonance imaging (CI) [Adnet et al.], 83
- Laudanosine**
- blockade and activation of the human neuronal nicotinic acetylcholine receptors by atracurium and laudanosine (LI) [Chiodini et al.], 643
- Leukocytes and lymphocytes. See Immunology and inflammation**
- Lidocaine**
- airway anesthesia alone does not explain attenuation of histamine-induced bronchospasm by local anesthetics: a comparison of lidocaine, ropivacaine, and dyclonine (CI) [Groeben et al.], 423
- epidural lidocaine decreases sevoflurane requirement for adequate depth of anesthesia as measured by the Bispectral Index® monitor (CI) [Hodgson and Liu], 799
- epinephrine increases the neurotoxic potential of intrathecally administered lidocaine in the rat (LI) [Hashimoto et al.], 876
- modeling population pharmacokinetics of lidocaine: should cardiac output be included as a patient factor? (CI) [Kuipers et al.], 566
- Liver function and disease**
- cytochrome P-450 2B6 is responsible for interindividual variability of propofol hydroxylation by human liver microsomes (LI) [Court et al.], 110
- effect of hypothermia on the hepatic uptake and biliary excretion of vecuronium in the isolated perfused rat liver (LI) [Beaufort et al.], 270
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- reduced need for vasopressors in patients receiving aprotinin during orthotopic liver transplantation (CI) [Molenaar et al.], 433
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- airway anesthesia alone does not explain attenuation of histamine-induced bronchospasm by local anesthetics: a comparison of lidocaine, ropivacaine, and dyclonine (CI) [Groeben et al.], 423
- amitriptyline *versus* bupivacaine in rat sciatic nerve blockade (LI) [Gerner et al.], 661
- caudal ropivacaine in infants: population pharmacokinetics and plasma concentration (CI) [Hansen et al.], 579
- dose-response study of epidural ropivacaine for labor analgesia (CI) [Lee et al.], 767
- effect of drugs used for neuropathic pain management on tetrodotoxin-resistant Na<sup>+</sup> currents in rat sensory neurons (LI) [Bräu et al.], 137
- epidural lidocaine decreases sevoflurane requirement for adequate depth of anesthesia as measured by the Bispectral Index® monitor (CI) [Hodgson and Liu], 799
- epinephrine increases the neurotoxic potential of intrathecally administered lidocaine in the rat (LI) [Hashimoto et al.], 876
- intraoperative seizures in cardiac surgical patients undergoing deep hypothermic circulatory arrest monitored with EEG (CR) [Cheung et al.], 1143
- intrathecal ropivacaine and clonidine for ambulatory knee arthroscopy: a dose-response study (CI) [Kock et al.], 574
- local anesthetic inhibition of voltage-activated potassium currents in rat dorsal root ganglion neurons (LI) [Komai and McDowell], 1089
- minimum local analgesic dose of intrathecal bupivacaine in labor and the effect of intrathecal fentanyl (CI) [Stocks et al.], 593
- modeling population pharmacokinetics of lidocaine: should cardiac output be included as a patient factor? (CI) [Kuipers et al.], 566
- Tetzlaff, *Clinical Pharmacology of Local Anesthetics* (EM) [Butterworth], 382
- Lung, alveolar macrophages**
- perfluorohexane attenuates proinflammatory and procoagulatory response of activated monocytes and alveolar macrophages (LI) [Koch et al.], 101
- recovery of intraoperative microbicidal and inflammatory functions of alveolar immune cells after a tobacco smoke-free period (CI) [Kotani et al.], 999
- Lung, blood flow**
- inhibitory effects of etomidate and ketamine on endothelium-dependent relaxation in canine pulmonary artery (LI) [Ogawa et al.], 668
- propofol potentiates phenylephrine-induced contraction *via* cyclooxygenase inhibition in pulmonary artery smooth muscle (LI) [Ogawa et al.], 833
- pulmonary vascular effects of propofol at baseline, during elevated vasomotor tone, and in response to sympathetic  $\alpha$ - and  $\beta$ -adrenoreceptor activation (LI) [Kondo et al.], 815
- Lung, gas exchange**
- effect of increasing perfluorocarbon dose on VA/Q distribution during partial liquid ventilation in acute lung injury (LI) [Lim et al.], 637
- effect of inhaled prostacyclin in combination with almitrine on ventilation-perfusion distributions in experimental lung injury (LI) [Dembinski et al.], 461
- partial liquid ventilation reduces fluid filtration of isolated rabbit lungs with acute hydrochloric acid-induced edema (LI) [Loer and Tarnow], 1045
- Lung, independent ventilation**
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- Lung, injury**
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- effect of inhaled prostacyclin in combination with almitrine on ventilation-perfusion distributions in experimental lung injury (LI) [Dembinski et al.], 461
- high-frequency jet ventilation in life-threatening bilateral pulmonary contusion (CR) [Riou et al.], 927
- Lung, mechanics**
- the effects of CO<sub>2</sub> on respiratory mechanics in anesthetized paralyzed humans (CI) [D'Angelo et al.], 604
- optimal mean airway pressure during high-frequency oscillation: predicted by the pressure-volume curve (LI) [Goddon et al.], 862
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- negative-pressure pulmonary edema in a child with hiccups during induction (CO) [Mandal], 378
- negative-pressure pulmonary edema in a child with hiccups during induction (CO) [Stuth and Stucke], 379
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- lungs with acute hydrochloric acid-induced edema (LI) [Loer and Tarnow], 1045
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  - is there a place for inhaled nitric oxide in the therapy of massive pulmonary embolism? (CCC) [Tanus-Santos and Moreno], 354
- Lung, respiratory control**
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  - effect of inhaled prostacyclin in combination with almitrine on ventilation-perfusion distributions in experimental lung injury (LI) [Dembinski et al.], 461
  - hemoglobin desaturation after succinylcholine-induced apnea: a study of the recovery of spontaneous ventilation in healthy volunteers (CI) [Heier et al.], 754
  - large hypopharyngeal tongue: a shared anatomic abnormality for difficult mask ventilation, difficult intubation, and obstructive sleep apnea? (CO) [Chou and Wu], 936
  - large hypopharyngeal tongue: a shared anatomic abnormality for difficult mask ventilation, difficult intubation, and obstructive sleep apnea? (CO) [Langeron], 937
  - response surface modeling of alfentanil-sevoflurane interaction on cardiorespiratory control and Bispectral Index (CI) [Dahan et al.], 982
- Lung function and disease**
- different inhibitory effects of volatile anesthetics on T- and L-type voltage-dependent  $\text{Ca}^{2+}$  channels in porcine tracheal and bronchial smooth muscles (LI) [Yamakage et al.], 683
  - effect of increasing perfluorocarbon dose on VA/Q distribution during partial liquid ventilation in acute lung injury (LI) [Lim et al.], 637
  - effect of inhaled prostacyclin in combination with almitrine on ventilation-perfusion distributions in experimental lung injury (LI) [Dembinski et al.], 461
  - the effects of  $\text{CO}_2$  on respiratory mechanics in anesthetized paralyzed humans (CI) [D'Angelo et al.], 604
  - effects of dantrolene on rat diaphragm muscle during postnatal maturation (LI) [Orliaguet et al.], 468
  - efficacy of propofol to prevent bronchoconstriction: effects of preservative (LI) [Brown et al.], 851
  - halothane increases smooth muscle protein phosphatase in airway smooth muscle (LI) [Hanazaki et al.], 129
  - high-frequency jet ventilation in life-threatening bilateral pulmonary contusion (CR) [Riou et al.], 927
  - inhibitory effects of etomidate and ketamine on endothelium-dependent relaxation in canine pulmonary artery (LI) [Ogawa et al.], 668
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  - is there a place for inhaled nitric oxide in the therapy of massive pulmonary embolism? (CCC) [Tanus-Santos and Moreno], 354
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  - negative-pressure pulmonary edema in a child with hiccups during induction (CO) [Mandal], 378
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  - optimal mean airway pressure during high-frequency oscillation: predicted by the pressure-volume curve (LI) [Goddon et al.], 862
  - partial liquid ventilation reduces fluid filtration of isolated rabbit lungs with acute hydrochloric acid-induced edema (LI) [Loer and Tarnow], 1045
  - perfluorohexane attenuates proinflammatory and procoagulatory response of activated monocytes and alveolar macrophages (LI) [Koch et al.], 101
  - propofol attenuates diaphragmatic dysfunction induced by septic peritonitis in hamsters (LI) [Mikawa et al.], 652
  - propofol potentiates phenylephrine-induced contraction *via* cyclooxygenase inhibition in pulmonary artery smooth muscle (LI) [Ogawa et al.], 833
  - protective effects of volatile agents against methacholine-induced bronchoconstriction in rats (LI) [Habre et al.], 348
  - pulmonary vascular effects of propofol at baseline, during elevated vasomotor tone, and in response to sympathetic  $\alpha$ - and  $\beta$ -adrenoreceptor activation (LI) [Kondo et al.], 815
  - recovery of intraoperative microbicidal and inflammatory functions of alveolar immune cells after a tobacco smoke-free period (CI) [Kotani et al.], 999
  - response surface modeling of alfentanil-sevoflurane interaction on cardiorespiratory control and Bispectral Index (CI) [Dahan et al.], 982
  - Wahba (ed.), *Atlas of Applied Respiratory Physiology* (EM) [Warner], 382
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  - subanesthetic isoflurane affects task-induced brain activation in a highly specific manner (CI) [Heinke and Schwarzbauer], 973
- Malignant hyperthermia**
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  - did anesthetics trigger cardiac arrests in patients with occult myopathies? (CO) [Murray], 934
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  - compliance compensation of the Narkomed 6000 explained (CO) [Stevenson et al.], 544
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  - is ventilator-associated pneumonia an independent risk factor for death? (CI) [Bregoeon et al.], 554
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  - optimal mean airway pressure during high-frequency oscillation: predicted by the pressure-volume curve (LI) [Goddon et al.], 862
  - partial liquid ventilation reduces fluid filtration of isolated rabbit lungs with acute hydrochloric acid-induced edema (LI) [Loer and Tarnow], 1045
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  - anesthetic-like interaction of the sleep-inducing lipid oleamide with voltage-gated sodium channels in mammalian brain (LI) [Nicholson et al.], 120
  - anesthetic properties of 4-iodopropofol: implications for mechanisms of anesthesia (LI) [Lingamaneni et al.], 1050
  - blockade of AMPA receptors and volatile anesthetics: reduced anes-

- thetic requirements in GluR2 null mutant mice for loss of the righting reflex and antinociception but not minimum alveolar concentration (LI) [Joo et al.], 478
- effect of the deficiency of spinal PSD-95/SAP90 on the minimum alveolar anesthetic concentration of isoflurane in rats (LI) [Tao and Johns], 1010
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- Methacholine**
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- Microcirculation**
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- Midazolam**
- cardiovascular effects of sevoflurane, isoflurane, halothane, and fentanyl-midazolam in children with congenital heart disease: an echocardiographic study of myocardial contractility and hemodynamics (CI) [Rivenes et al.], 223
- speed of recovery and side-effect profile of sevoflurane sedation compared with midazolam (CI) [Ibrahim et al.], 87
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- rhabdomyolysis following cardiopulmonary bypass and treatment with enoximone in a patient susceptible to malignant hyperthermia (CR) [Riess et al.], 355
- Minimum alveolar concentration (MAC)**
- blockade of AMPA receptors and volatile anesthetics: reduced anesthetic requirements in GluR2 null mutant mice for loss of the righting reflex and antinociception but not minimum alveolar concentration (LI) [Joo et al.], 478
- effect of the deficiency of spinal PSD-95/SAP90 on the minimum alveolar anesthetic concentration of isoflurane in rats (LI) [Tao and Johns], 1010
- the effect of hypothermia on isoflurane MAC in children (CI) [Liu et al.], 429
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- Models and modeling**
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- administration of endocannabinoids prevents a referred hyperalgesia associated with inflammation of the urinary bladder (LI) [Farquhar-Smith and Rice], 507
- amitriptyline *versus* bupivacaine in rat sciatic nerve blockade (LI) [Gerner et al.], 661
- analgesic and antiinflammatory effects of two novel  $\kappa$ -opioid peptides (LI) [Binder et al.], 1034
- anesthetic concentrations of propofol protect against oxidative stress in primary astrocyte cultures: comparison with hypothermia (LI) [Peters et al.], 313
- anesthetic-like interaction of the sleep-inducing lipid oleamide with voltage-gated sodium channels in mammalian brain (LI) [Nicholson et al.], 120
- anesthetic potency and influence of morphine and sevoflurane on respiration in  $\mu$ -opioid receptor knockout mice (LI) [Dahan et al.], 824
- anesthetic properties of 4-iodopropofol: implications for mechanisms of anesthesia (LI) [Lingamneni et al.], 1050
- attenuation of the tumor-promoting effect of surgery by spinal blockade in rats (LI) [Bar-Yosef et al.], 1066
- blockade and activation of the human neuronal nicotinic acetylcholine receptors by atracurium and laudanosine (LI) [Chiodini et al.], 643
- blockade of AMPA receptors and volatile anesthetics: reduced anesthetic requirements in GluR2 null mutant mice for loss of the righting reflex and antinociception but not minimum alveolar concentration (LI) [Joo et al.], 478
- can *in vitro* studies be reliably extrapolated to *in vivo* behavior? (CO) [Laroche and Laxenaire], 179
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- cardiovascular responses to the induction of mild hypothermia in the presence of epidural anesthesia (LI) [Yoshida et al.], 678
- comparison of volatile anesthetic actions on intracellular calcium stores of vascular smooth muscle: investigation in isolated systemic resistance arteries (LI) [Akata et al.], 840
- compliance compensation of the Narkomed 6000 explained (CO) [Feldman and Smith], 543
- compliance compensation of the Narkomed 6000 explained (CO) [Stevenson et al.], 544
- the concentration of isoflurane required to suppress learning depends on the type of learning (LI) [Dutton et al.], 514
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- differential behavioral effects of peripheral and systemic morphine and naloxone in a rat model of repeated acute inflammation (LI) [Perrot et al.], 870
- different inhibitory effects of volatile anesthetics on T- and L-type voltage-dependent Ca<sup>2+</sup> channels in porcine tracheal and bronchial smooth muscles (LI) [Yamakage et al.], 683
- diffusion of xenon and nitrous oxide into the bowel (LI) [Reinelt et al.], 475
- divergence of volatile anesthetic effects in inhibitory neurotransmitter receptors (LI) [Greenblatt and Meng], 1026
- effect of the deficiency of spinal PSD-95/SAP90 on the minimum alveolar anesthetic concentration of isoflurane in rats (LI) [Tao and Johns], 1010
- effect of drugs used for neuropathic pain management on tetrodotoxin-resistant Na<sup>+</sup> currents in rat sensory neurons (LI) [Bräu et al.], 137
- effect of hypothermia on the hepatic uptake and biliary excretion of vecuronium in the isolated perfused rat liver (LI) [Beaufort et al.], 270
- effect of increasing perfluorocarbon dose on VA/Q distribution during partial liquid ventilation in acute lung injury (LI) [Lim et al.], 637
- effect of inhaled prostacyclin in combination with almitrine on ventilation-perfusion distributions in experimental lung injury (LI) [Dembinski et al.], 461
- effect of remifentanyl on pain and secondary hyperalgesia associated with the heat-capsaicin sensitization model in healthy volunteers (CI) [Petersen et al.], 15
- effects of dantrolene on rat diaphragm muscle during postnatal maturation (LI) [Orliaguet et al.], 468
- effects of ketamine and its isomers on ischemic preconditioning in the isolated rat heart (LI) [Molajavay et al.], 623
- effects of xenon on cerebral blood flow and cerebral glucose utilization in rats (LI) [Frietsch et al.], 290
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- efficacy of propofol to prevent bronchoconstriction: effects of preservative (LI) [Brown et al.], 851
- electrophysiologic evidence for increased endogenous GABAergic but not glycinergic inhibitory tone in the rat spinal nerve ligation model of neuropathy (LI) [Kontinen et al.], 333
- epidural anesthesia retards intestinal acidosis and reduces portal vein endotoxin concentrations during progressive hypoxia in rabbits (LI) [Ai et al.], 263
- epinephrine increases the neurotoxic potential of intrathecally administered lidocaine in the rat (LI) [Hashimoto et al.], 876
- halothane increases smooth muscle protein phosphatase in airway smooth muscle (LI) [Hanazaki et al.], 129
- influence of hemorrhagic shock on remifentanyl: a pharmacokinetic and pharmacodynamic analysis (LI) [Johnson et al.], 322
- inhaled nitric oxide improves survival rates during hypoxia in a



- sickle cell (SAD) mouse model (LI) [Martinez-Ruiz et al.], 1113
- inhibitory effects of barbiturates on nicotinic acetylcholine receptors in rat central nervous system neurons (LI) [Kamiya et al.], 694
- inhibitory effects of etomidate and ketamine on endothelium-dependent relaxation in canine pulmonary artery (LI) [Ogawa et al.], 668
- interaction of edrophonium with muscarinic acetylcholine  $M_2$  and  $M_3$  receptors (LI) [Tanito et al.], 804
- isoflurane blocks synaptic plasticity in the mouse hippocampus (LI) [Simon et al.], 1058
- ketamine, but not S(+)-ketamine, blocks ischemic preconditioning in rabbit hearts *in vivo* (LI) [Müllenheim et al.], 630
- leukocytes can enhance platelet-mediated aggregation and thromboxane release *via* interaction of P-selectin glycoprotein ligand 1 with P-selectin (LI) [Faraday et al.], 145
- local anesthetic inhibition of voltage-activated potassium currents in rat dorsal root ganglion neurons (LI) [Komai and McDowell], 1089
- low concentrations of halothane increase response to a noxious thermal stimulus and attenuate the antinociceptive effect of intraventricular but not intrathecal morphine (LI) [Drasner], 298
- mathematical modeling of carbon monoxide exposures from anesthetic breakdown: effect of subject size, hematocrit, fraction of inspired oxygen, and quantity of carbon monoxide (LI) [Woehlck et al.], 457
- mechanisms of isoflurane-mediated hyperpolarization of vascular smooth muscle in chronically hypertensive and normotensive conditions (LI) [Stekiel et al.], 496
- modeling population pharmacokinetics of lidocaine: should cardiac output be included as a patient factor? (CI) [Kuipers et al.], 566
- an obligatory role for spinal cholinergic neurons in the antiallodynic effects of clonidine after peripheral nerve injury (LI) [Paqueron et al.], 1074
- optimal mean airway pressure during high-frequency oscillation: predicted by the pressure-volume curve (LI) [Goddon et al.], 862
- partial liquid ventilation reduces fluid filtration of isolated rabbit lungs with acute hydrochloric acid-induced edema (LI) [Loer and Tarnow], 1045
- perfluorohexane attenuates proinflammatory and procoagulatory response of activated monocytes and alveolar macrophages (LI) [Koch et al.], 101
- physical factors affecting the production of carbon monoxide from anesthetic breakdown (LI) [Woehlck et al.], 453
- propofol attenuates diaphragmatic dysfunction induced by septic peritonitis in hamsters (LI) [Mikawa et al.], 652
- propofol potentiates phenylephrine-induced contraction *via* cyclooxygenase inhibition in pulmonary artery smooth muscle (LI) [Ogawa et al.], 833
- protective effects of volatile agents against methacholine-induced bronchoconstriction in rats (LI) [Habre et al.], 348
- pulmonary vascular effects of propofol at baseline, during elevated vasomotor tone, and in response to sympathetic  $\alpha$ - and  $\beta$ -adrenoreceptor activation (LI) [Kondo et al.], 815
- response surface modeling of alfentanil-sevoflurane interaction on cardiorespiratory control and Bispectral Index (CI) [Dahan et al.], 982
- role of heparin and nitric oxide in the cardiac and regional hemodynamic properties of protamine in conscious chronically instrumented dogs (LI) [Oguchi et al.], 1016
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- the use of intravenous nitroglycerin in a case of spasm of the sphincter of Oddi during laparoscopic cholecystectomy (LI) [Toyoyama et al.], 708
- Molecular biology**
- divergence of volatile anesthetic effects in inhibitory neurotransmitter receptors (LI) [Greenblatt and Meng], 1026
- Monitoring**
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- effect of propofol on H-reflex in humans (CI) [Kerz et al.], 32
- epidural lidocaine decreases sevoflurane requirement for adequate depth of anesthesia as measured by the Bispectral Index® monitor (CI) [Hodgson and Liu], 799
- intraoperative seizures in cardiac surgical patients undergoing deep hypothermic circulatory arrest monitored with EEG (CR) [Cheung et al.], 1143
- is coronary artery disease equivalent to ischemia? (CCC) [Fleischer], 161
- is coronary artery disease equivalent to ischemia? (CCC) [Woehlck et al.], 161
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- rapid extraction of middle-latency auditory-evoked potentials (CO) [Jensen and Litvan], 718
- surgical stimulation shifts EEG concentration-response relationship of desflurane (CI) [Röpcke et al.], 390
- Morphine**
- analgesic effect of low-dose intrathecal morphine after spinal fusion in children (CI) [Gall et al.], 447
- anesthetic potency and influence of morphine and sevoflurane on respiration in  $\mu$ -opioid receptor knockout mice (LI) [Dahan et al.], 824
- differential behavioral effects of peripheral and systemic morphine and naloxone in a rat model of repeated acute inflammation (LI) [Perrot et al.], 870
- intraventricular administration of morphine and clonidine (CR) [Leong et al.], 1141
- low concentrations of halothane increase response to a noxious thermal stimulus and attenuate the antinociceptive effect of intraventricular but not intrathecal morphine (LI) [Drasner], 298
- Mortality**
- the Cardiac Anesthesia Risk Evaluation score: a clinically useful predictor of mortality and morbidity after cardiac surgery (CI) [Dupuis et al.], 194
- cardiac arrest after succinylcholine: mortality greater with rhabdomyolysis than receptor upregulation (RA) [Gronert], 523
- decreased endotoxin immunity is associated with greater mortality and/or prolonged hospitalization after surgery (CI) [Bennett-Guerrero et al.], 992
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- is ventilator-associated pneumonia an independent risk factor for death? (CI) [Bregone et al.], 554
- Myocardial infarct/infarction**
- cardiac arrest and myocardial infarction induced by postpartum intravenous ergonovine administration (CR) [Tsui et al.], 363
- perioperative myocardial infarction (PMI): a never-ending story (CO) [Mollhoff et al.], 540
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- Myocardium**
- cardiovascular effects of sevoflurane, isoflurane, halothane, and fentanyl-midazolam in children with congenital heart disease: an echocardiographic study of myocardial contractility and hemodynamics (CI) [Rivenes et al.], 223
- effects of isoflurane on intracellular calcium and myocardial cross-bridge kinetics in tetanized papillary muscles (LI) [Hannon et al.], 856

## N

**Naloxone**

- differential behavioral effects of peripheral and systemic morphine and naloxone in a rat model of repeated acute inflammation (LI) [Perrot et al.], 870

**Nasogastric tube**

- a method to improve a gas leak on mask ventilation in the patient with a nasogastric tube (CO) [Noguchi et al.], 545

**Nausea, vomiting, and antiemetics**

- the cannabinoid agonist WIN55,212-2 suppresses opioid-induced emesis in ferrets (LI) [Simoneau et al.], 882

**Nerve blocks. See also Local anesthesia and anesthetics; Regional anesthesia and anesthetics**

- amitriptyline *versus* bupivacaine in rat sciatic nerve blockade (LI) [Gerner et al.], 661
- celiac plexus block: injectate spread and pain relief in patients with regional anatomic distortions (CI) [De Cicco et al.], 561
- delayed subdural block after a stellate ganglion block (CR) [Leong and Mackey], 358
- the effect of lumbar plexus block on blood loss and postoperative pain (CO) [Ekatodramis et al.], 716
- the effect of lumbar plexus block on blood loss and postoperative pain (CO) [Stevens et al.], 717
- peribulbar *versus* retrobulbar anesthesia for ophthalmic surgery: an anatomical comparison of extraconal and intraconal injections (CI) [Ripart et al.], 56
- subcutaneous paravertebral block for renal colic (CR) [Nikiforov et al.], 531

**Nerve injury**

- an obligatory role for spinal cholinergic neurons in the antiallodynic effects of clonidine after peripheral nerve injury (LI) [Paqueron et al.], 1074
- transient lingual and glossopharyngeal nerve injury: a complication of cuffed oropharyngeal airway (CO) [Laffon et al.], 719

**Neurokinin**

- sensory processing in the deep spinal dorsal horn of neurokinin-1 receptor knockout mice (LI) [Weng et al.], 1105

**Neurology and neurologic examination**

- the Neurologic and Adaptive Capacity Score is not a reliable method of newborn evaluation (CI) [Halpern et al.], 958

**Neuromuscular transmission and blockade**

- blockade and activation of the human neuronal nicotinic acetylcholine receptors by atracurium and laudanosine (LI) [Chiodini et al.], 643
- bronchospasm after rapacurium in infants and children (CR) [Meakin et al.], 926
- dose-response relationship and infusion requirement of cisatracurium besylate in infants and children during nitrous oxide-narcotic anesthesia (CI) [de Ruiter and Crawford], 790
- effect of hypothermia on the hepatic uptake and biliary excretion of vecuronium in the isolated perfused rat liver (LI) [Beaufort et al.], 270
- hemoglobin desaturation after succinylcholine-induced apnea: a study of the recovery of spontaneous ventilation in healthy volunteers (CI) [Heier et al.], 754
- how serious is the bronchospasm induced by rapacurium? (CR) [Naguib], 924
- interaction of edrophonium with muscarinic acetylcholine  $M_2$  and  $M_3$  receptors (LI) [Tanito et al.], 804
- intramuscular rapacurium in infants and children: a comparative multicenter study to confirm the efficacy and safety of the age-related tracheal intubating doses of intramuscular rapacurium (ORG 9487) in two groups of pediatric subjects (CI) [Denman et al.], 3
- no substitute for the intravenous route (EV) [Donati and Guay], 1
- rapacurium and bronchospasm (EV) [Goudsouzian], 727
- recirculatory pharmacokinetics and pharmacodynamics of rocuronium in patients (CI) [Kuipers et al.], 47
- severe bronchospasm and desaturation in a child associated with rapacurium (CR) [Kron], 923

**Neuropathy**

- effect of drugs used for neuropathic pain management on tetrodo-

toxin-resistant  $Na^+$  currents in rat sensory neurons (LI) [Bräu et al.], 137

electrophysiologic evidence for increased endogenous GABAergic but not glycinergic inhibitory tone in the rat spinal nerve ligation model of neuropathy (LI) [Kontinen et al.], 333

ischemic optic neuropathy after liver transplantation (CR) [Janicki et al.], 361

postoperative neuropathy following fascia iliaca compartment blockade (CR) [Atchabahian and Brown], 534

**Neuroprotection**

- absence of direct antioxidant effects from volatile anesthetics in primary mixed neuronal-glial cultures (LI) [Kudo et al.], 303
- anesthetic concentrations of propofol protect against oxidative stress in primary astrocyte cultures: comparison with hypothermia (LI) [Peters et al.], 313

**Nitric oxide and nitric oxide synthase**

- role of heparin and nitric oxide in the cardiac and regional hemodynamic properties of protamine in conscious chronically instrumented dogs (LI) [Oguchi et al.], 1016

**Nitric oxide inhalation**

- inhaled nitric oxide improves survival rates during hypoxia in a sickle cell (SAD) mouse model (LI) [Martinez-Ruiz et al.], 1113

is there a place for inhaled nitric oxide in the therapy of massive pulmonary embolism? (CCC) [Haddad et al.], 354

is there a place for inhaled nitric oxide in the therapy of massive pulmonary embolism? (CCC) [Tanus-Santos and Moreno], 354

**Nitroglycerin and nitroprusside**

- the use of intravenous nitroglycerin in a case of spasm of the sphincter of Oddi during laparoscopic cholecystectomy (LI) [Toyoyama et al.], 708

**Nitrous oxide**

- diffusion of xenon and nitrous oxide into the bowel (LI) [Reinelt et al.], 475

dose-response relationship and infusion requirement of cisatracurium besylate in infants and children during nitrous oxide-narcotic anesthesia (CI) [de Ruiter and Crawford], 790

the midlatency auditory evoked potentials predict responsiveness to verbal commands in patients emerging from anesthesia with xenon, isoflurane, and sevoflurane but not with nitrous oxide (CI) [Goto et al.], 782

**Noception. See also Pain physiology and pharmacology**

- blockade of AMPA receptors and volatile anesthetics: reduced anesthetic requirements in GluR2 null mutant mice for loss of the righting reflex and antinociception but not minimum alveolar concentration (LI) [Joo et al.], 478

effect of drugs used for neuropathic pain management on tetrodoxin-resistant  $Na^+$  currents in rat sensory neurons (LI) [Bräu et al.], 137

effect of remifentanyl on pain and secondary hyperalgesia associated with the heat-capsaicin sensitization model in healthy volunteers (CI) [Petersen et al.], 15

low concentrations of halothane increase response to a noxious thermal stimulus and attenuate the antinociceptive effect of intraventricular but not intrathecal morphine (LI) [Drasner], 298

an obligatory role for spinal cholinergic neurons in the antiallodynic effects of clonidine after peripheral nerve injury (LI) [Paqueron et al.], 1074

**Nonsteroidal anti-inflammatory drugs (NSAIDs)**

- preemptive analgesic effects of ketorolac in ankle fracture surgery (CI) [Norman et al.], 599

## O

**Obstetric anesthesia**

- anesthetic management of a parturient with superior vena cava obstruction for cesarean section (CR) [Chan et al.], 167
- cardiac arrest and myocardial infarction induced by postpartum intravenous ergonovine administration (CR) [Tsui et al.], 363
- CSE in labor and hypoglycemia (CO) [Ramanathan], 1151
- CSE in labor and hypoglycemia (CO) [Verma and Plaat], 1150

- dose-response study of epidural ropivacaine for labor analgesia (CI) [Lee et al.], 767
- to increase obstetric reimbursement rates, we need to improve the product (CO) [Bell], 179
- to increase obstetric reimbursement rates, we need to improve the product (CO) [Leighton], 178
- minimum analgesic dose of epidural sufentanil for first-stage labor analgesia: a comparison between spontaneous and prostaglandin-induced labors in nulliparous women (CI) [Capogna et al.], 740
- minimum local analgesic dose of intrathecal bupivacaine in labor and the effect of intrathecal fentanyl (CI) [Stocks et al.], 593
- the Neurologic and Adaptive Capacity Score is not a reliable method of newborn evaluation (CI) [Halpern et al.], 958
- Norris (ed.), *Obstetric Anesthesia*, 2nd edition (EM) [Schneider], 721
- subcutaneous paravertebral block for renal colic (CR) [Nikiforov et al.], 531
- Obstruction, airway.** See **Airway management**
- Oleamide**
- anesthetic-like interaction of the sleep-inducing lipid oleamide with voltage-gated sodium channels in mammalian brain (LI) [Nicholson et al.], 120
- Ophthalmic anesthesia**
- ophthalmic anesthesia (CO) [Pinsker], 376
- peribulbar *versus* retrobulbar anesthesia for ophthalmic surgery: an anatomical comparison of extraconal and intraconal injections (CI) [Ripart et al.], 56
- sub-tenon eye block: approaching the ideal? (CO) [Ripart et al.], 377
- sub-tenon eye block: approaching the ideal? (CO) [Verma and Maker], 376
- on the use of topical anesthesia for cataract extraction surgery (CO) [Sosis], 376
- Opioids**
- analgesic and antiinflammatory effects of two novel  $\kappa$ -opioid peptides (LI) [Binder et al.], 1034
- analgesic effect of low-dose intrathecal morphine after spinal fusion in children (CI) [Gall et al.], 447
- anesthetic potency and influence of morphine and sevoflurane on respiration in  $\mu$ -opioid receptor knockout mice (LI) [Dahan et al.], 824
- the cannabinoid agonist WIN55,212-2 suppresses opioid-induced emesis in ferrets (LI) [Simoneau et al.], 882
- differential behavioral effects of peripheral and systemic morphine and naloxone in a rat model of repeated acute inflammation (LI) [Perrot et al.], 870
- dose-dependent regional cerebral blood flow changes during remifentanyl infusion in humans: a positron emission tomography study (CI) [Wagner et al.], 732
- effect of remifentanyl on pain and secondary hyperalgesia associated with the heat-capsaicin sensitization model in healthy volunteers (CI) [Petersen et al.], 15
- influence of hemorrhagic shock on remifentanyl: a pharmacokinetic and pharmacodynamic analysis (LI) [Johnson et al.], 322
- low concentrations of halothane increase response to a noxious thermal stimulus and attenuate the antinociceptive effect of intraventricular but not intrathecal morphine (LI) [Drasner], 298
- minimum local analgesic dose of intrathecal bupivacaine in labor and the effect of intrathecal fentanyl (CI) [Stocks et al.], 593
- opiates, intracranial pressure, and autoregulation (CO) [Lam and Warner], 177
- opiates, intracranial pressure, and autoregulation (CO) [Nadal and Sahuquillo], 177
- opioids inhibit febrile responses in humans, whereas epidural analgesia does not: an explanation for hyperthermia during epidural analgesia (CI) [Negishi et al.], 218
- pharmacodynamics of orally administered sustained-release hydromorphone in humans (CI) [Angst et al.], 63
- propofol alters the pharmacokinetics of alfentanil in healthy male volunteers (CI) [Mertens et al.], 949
- response surface modeling of alfentanil-sevoflurane interaction on cardiorespiratory control and Bispectral Index (CI) [Dahan et al.], 982
- signal transduction of opioid-induced cardioprotection in ischemia-reperfusion (LI) [McPherson and Yao], 1082
- subarachnoid sufentanil for early postoperative pain management in orthopedic patients: a placebo-controlled, double-blind study using spinal microcatheters (CI) [Standl et al.], 230
- Organ transplantation**
- ischemic optic neuropathy after liver transplantation (CR) [Janicki et al.], 361
- reduced need for vasopressors in patients receiving aprotinin during orthotopic liver transplantation (CI) [Molenaar et al.], 433
- Oropharyngeal airway, cuffed.** See **Laryngeal mask airway and COPA**
- Orthopedic surgery**
- the effect of lumbar plexus block on blood loss and postoperative pain (CO) [Ekatodramis et al.], 716
- the effect of lumbar plexus block on blood loss and postoperative pain (CO) [Stevens et al.], 717
- intrathecal ropivacaine and clonidine for ambulatory knee arthroscopy: a dose-response study (CI) [Kock et al.], 574
- preemptive analgesic effects of ketorolac in ankle fracture surgery (CI) [Norman et al.], 599
- prolonged coma after unreamed, locked nailing of femoral shaft fracture (CR) [Byrick et al.], 163
- subarachnoid sufentanil for early postoperative pain management in orthopedic patients: a placebo-controlled, double-blind study using spinal microcatheters (CI) [Standl et al.], 230
- Outcomes**
- the Cardiac Anesthesia Risk Evaluation score: a clinically useful predictor of mortality and morbidity after cardiac surgery (CI) [Dupuis et al.], 194
- cardiac arrest and myocardial infarction induced by postpartum intravenous ergonovine administration (CR) [Tsui et al.], 363
- decreased endotoxin immunity is associated with greater mortality and/or prolonged hospitalization after surgery (CI) [Bennett-Guerrero et al.], 992
- is ventilator-associated pneumonia an independent risk factor for death? (CI) [Bregon et al.], 554
- medical direction during anesthesia: what or who is the problem? (CO) [Kleinman], 713
- nosocomial infections and outcome of critically ill elderly patients after surgery (CI) [Stéphan et al.], 407
- patient outcomes and "directed" anesthesia care (CO) [Obst], 712
- Outpatient surgery.** See **Ambulatory care**
- Oxygen and oxygen transport**
- critical hematocrit in intestinal tissue oxygenation during severe normovolemic hemodilution (LI) [van Bommel et al.], 152
- epidural anesthesia retards intestinal acidosis and reduces portal vein endotoxin concentrations during progressive hypoxia in rabbits (LI) [Ai et al.], 263
- hemoglobin desaturation after succinylcholine-induced apnea: a study of the recovery of spontaneous ventilation in healthy volunteers (CI) [Heier et al.], 754
- inhaled nitric oxide improves survival rates during hypoxia in a sickle cell (SAD) mouse model (LI) [Martinez-Ruiz et al.], 1113
- large hypopharyngeal tongue: a shared anatomic abnormality for difficult mask ventilation, difficult intubation, and obstructive sleep apnea? (CO) [Chou and Wu], 936
- large hypopharyngeal tongue: a shared anatomic abnormality for difficult mask ventilation, difficult intubation, and obstructive sleep apnea? (CO) [Langeron], 937
- mask tolerance and preoxygenation: a problem for anesthesiologists but not for patients (CO) [Schlack et al.], 546
- mathematical modeling of carbon monoxide exposures from anesthetic breakdown: effect of subject size, hematocrit, fraction of inspired oxygen, and quantity of carbon monoxide (LI) [Woehle et al.], 457
- P**
- Pacemakers**
- electrocautery-induced tachycardia in a rate-responsive pacemaker (CR) [Wong and Middleton], 710

**Pain (acute/incisional).** See **Pain physiology and pharmacology Pain management**

- Abram and Haddox (eds.), *The Pain Clinic Manual*, 2nd edition (EM) [Lauretti], 942
- administration of endocannabinoids prevents a referred hyperalgesia associated with inflammation of the urinary bladder (LI) [Farquhar-Smith and Rice], 507
- analgesic effect of low-dose intrathecal morphine after spinal fusion in children (CI) [Gall et al.], 447
- Benzon, Raja, Borsook, Molloy, and Strichartz, *Essentials of Pain Medicine and Regional Anesthesia* (EM) [Rowlingson], 1154
- celiac plexus block: injectate spread and pain relief in patients with regional anatomic distortions (CI) [De Cicco et al.], 561
- effect of drugs used for neuropathic pain management on tetrodotoxin-resistant Na<sup>+</sup> currents in rat sensory neurons (LI) [Bräu et al.], 137
- the effect of lumbar plexus block on blood loss and postoperative pain (CO) [Ekatodramis et al.], 716
- the effect of lumbar plexus block on blood loss and postoperative pain (CO) [Stevens et al.], 717
- Ferrari (ed.), *Anesthesia and Pain Management for the Pediatrician* (EM) [Ririe], 722
- gene therapy for the management of pain: part I: methods and strategies (RA) [Wu et al.], 1119
- intraventricular administration of morphine and clonidine (CR) [Leong et al.], 1141
- preemptive analgesic effects of ketorolac in ankle fracture surgery (CI) [Norman et al.], 599
- subarachnoid sufentanil for early postoperative pain management in orthopedic patients: a placebo-controlled, double-blind study using spinal microcatheters (CI) [Standl et al.], 230

**Pain mechanisms (central)**

- low concentrations of halothane increase response to a noxious thermal stimulus and attenuate the antinociceptive effect of intraventricular but not intrathecal morphine (LI) [Drasner], 298

**Pain mechanisms (peripheral)**

- analgesic and antiinflammatory effects of two novel  $\kappa$ -opioid peptides (LI) [Binder et al.], 1034
- differential behavioral effects of peripheral and systemic morphine and naloxone in a rat model of repeated acute inflammation (LI) [Perrot et al.], 870
- effect of remifentanyl on pain and secondary hyperalgesia associated with the heat-capsaicin sensitization model in healthy volunteers (CI) [Petersen et al.], 15
- an obligatory role for spinal cholinergic neurons in the antiallodynic effects of clonidine after peripheral nerve injury (LI) [Paqueron et al.], 1074

**Pain mechanisms (spinal)**

- electrophysiologic evidence for increased endogenous GABAergic but not glycinergic inhibitory tone in the rat spinal nerve ligation model of neuropathy (LI) [Kontinen et al.], 333

**Pain (neuropathic)**

- effect of drugs used for neuropathic pain management on tetrodotoxin-resistant Na<sup>+</sup> currents in rat sensory neurons (LI) [Bräu et al.], 137
- electrophysiologic evidence for increased endogenous GABAergic but not glycinergic inhibitory tone in the rat spinal nerve ligation model of neuropathy (LI) [Kontinen et al.], 333
- postoperative neuropathy following fascia iliaca compartment blockade (CR) [Atchabahian and Brown], 534

**Pain physiology and pharmacology**

- analgesic and antiinflammatory effects of two novel  $\kappa$ -opioid peptides (LI) [Binder et al.], 1034
- differential behavioral effects of peripheral and systemic morphine and naloxone in a rat model of repeated acute inflammation (LI) [Perrot et al.], 870
- effect of drugs used for neuropathic pain management on tetrodotoxin-resistant Na<sup>+</sup> currents in rat sensory neurons (LI) [Bräu et al.], 137
- effect of remifentanyl on pain and secondary hyperalgesia associated with the heat-capsaicin sensitization model in healthy volunteers (CI) [Petersen et al.], 15
- electrophysiologic evidence for increased endogenous GABAergic

but not glycinergic inhibitory tone in the rat spinal nerve ligation model of neuropathy (LI) [Kontinen et al.], 333

- low concentrations of halothane increase response to a noxious thermal stimulus and attenuate the antinociceptive effect of intraventricular but not intrathecal morphine (LI) [Drasner], 298

an obligatory role for spinal cholinergic neurons in the antiallodynic effects of clonidine after peripheral nerve injury (LI) [Paqueron et al.], 1074

Wall, *Textbook of Pain*, 4th edition (EM) [Eisenach], 942

**Pain (sympathetic or causalgic).** See **Pain physiology and pharmacology; Sympathetic nervous system****Parturition.** See **Labor and delivery; Obstetric anesthesia****Patient and physician safety**

- electrical short circuit as a possible cause of death in patients on PCA machines: report on an opiate overdose and a possible preventive remedy (CO) [Doyle et al.], 940
- medical direction during anesthesia: what or who is the problem? (CO) [Kleinman], 713
- patient outcomes and "directed" anesthesia care (CO) [Obst], 712

**Patient-controlled analgesia (PCA, PCEA)**

- electrical short circuit as a possible cause of death in patients on PCA machines: report on an opiate overdose and a possible preventive remedy (CO) [Doyle et al.], 940

**Patient position/positioning**

- accidental extreme neck extension during repositioning of an operating room table (CO) [Szmuk et al.], 940
- compartment syndrome in surgical patients (CR) [Warner et al.], 705
- study of the "sniffing position" by magnetic resonance imaging (CI) [Adnet et al.], 83

**Pediatric anesthesia**

- analgesic effect of low-dose intrathecal morphine after spinal fusion in children (CI) [Gall et al.], 447
- anesthesia-related cardiac arrest in children (CO) [Coté], 933
- Baum and O'Flaherty (eds.), *Anesthesia for Genetic, Metabolic, & Dysmorphic Syndromes of Childhood* (EM) [Flick], 186
- benefits of parental presence outweigh risks (CO) [Lerman], 182
- benefits of parental presence outweigh risks (CO) [Watson], 182
- bronchospasm after rapacuronium in infants and children (CR) [Meakin et al.], 926
- cardiovascular effects of sevoflurane, isoflurane, halothane, and fentanyl-midazolam in children with congenital heart disease: an echocardiographic study of myocardial contractility and hemodynamics (CI) [Rivenes et al.], 223
- caudal ropivacaine in infants: population pharmacokinetics and plasma concentration (CI) [Hansen et al.], 579
- chlorhexidine versus povidone iodine in preventing colonization of continuous epidural catheters in children (CI) [Kinirons et al.], 239
- compliance compensation of the Narkomed 6000 explained (CO) [Feldman and Smith], 543
- compliance compensation of the Narkomed 6000 explained (CO) [Stevenson et al.], 544
- did anesthetics trigger cardiac arrests in patients with occult myopathies? (CO) [Larach et al.], 933
- did anesthetics trigger cardiac arrests in patients with occult myopathies? (CO) [Murray], 934
- dose-response relationship and infusion requirement of cisatracurium besylate in infants and children during nitrous oxide-narcotic anesthesia (CI) [de Ruiter and Crawford], 790
- the effect of hypothermia on isoflurane MAC in children (CI) [Liu et al.], 429
- effects of dantrolene on rat diaphragm muscle during postnatal maturation (LI) [Orliaguet et al.], 468
- fatal thrombosis associated with a hemi-Fontan procedure, heparin-protamine reversal, and aprotinin (CR) [Heindel et al.], 369
- Ferrari (ed.), *Anesthesia and Pain Management for the Pediatrician* (EM) [Ririe], 722
- inadvertent caudal epidural injection of cefazolin (CO) [Mchaurab and Ruiz], 184
- initial and subsequent dosing of rectal acetaminophen in children: a 24-hour pharmacokinetic study of new dose recommendations (CI) [Birmingham et al.], 385
- intramuscular rapacuronium in infants and children: a comparative



- multicenter study to confirm the efficacy and safety of the age-related tracheal intubating doses of intramuscular rapacurium (ORG 9487) in two groups of pediatric subjects (CI) [Denman et al.], 3
- Krauss and Brustowicz, *Pediatric Procedural Sedation and Analgesia* (EM) [Schears], 186
- negative-pressure pulmonary edema in a child with hiccups during induction (CO) [Mandal], 378
- negative-pressure pulmonary edema in a child with hiccups during induction (CO) [Stuth and Stucke], 379
- the Neurologic and Adaptive Capacity Score is not a reliable method of newborn evaluation (CI) [Halpern et al.], 958
- no substitute for the intravenous route (EV) [Donati and Guay], 1
- selective lobar-bronchial blocking for pediatric video-assisted thoracic surgery (CR) [Takahashi et al.], 170
- severe bronchospasm and desaturation in a child associated with rapacurium (CR) [Kron], 923
- tissue injury and the inflammatory response to pediatric cardiac surgery with cardiopulmonary bypass: a descriptive study (CI) [Chew et al.], 745
- Perfluorocarbons**  
effect of increasing perfluorocarbon dose on VA/Q distribution during partial liquid ventilation in acute lung injury (LI) [Lim et al.], 637
- Perfluorohexane**  
perfluorohexane attenuates proinflammatory and procoagulatory response of activated monocytes and alveolar macrophages (LI) [Koch et al.], 101
- Personnel issues.** See **Economics, management, and manpower**
- Phantom sensation**  
phantom sensation under regional anesthesia: a need for more elaborated studies (CO) [Gentili], 1148  
phantom sensation under regional anesthesia: a need for more elaborated studies (CO) [Isaacson], 1149
- Pharmacodynamics.** See **Pharmacokinetics and pharmacodynamics**
- Pharmacokinetics and pharmacodynamics**  
assessment of depth of anesthesia and postoperative respiratory recovery after remifentanyl *versus* alfentanil-based total intravenous anesthesia in patients undergoing ear-nose-throat surgery (CI) [Wuesten], 211  
caudal ropivacaine in infants: population pharmacokinetics and plasma concentration (CI) [Hansen et al.], 579  
effect of hypothermia on the hepatic uptake and biliary excretion of vecuronium in the isolated perfused rat liver (LI) [Beaufort et al.], 270  
influence of hemorrhagic shock on remifentanyl: a pharmacokinetic and pharmacodynamic analysis (LI) [Johnson et al.], 322  
initial and subsequent dosing of rectal acetaminophen in children: a 24-hour pharmacokinetic study of new dose recommendations (CI) [Birmingham et al.], 385  
intramuscular rapacurium in infants and children: a comparative multicenter study to confirm the efficacy and safety of the age-related tracheal intubating doses of intramuscular rapacurium (ORG 9487) in two groups of pediatric subjects (CI) [Denman et al.], 3  
modeling population pharmacokinetics of lidocaine: should cardiac output be included as a patient factor? (CI) [Kuipers et al.], 566  
pharmacodynamics of orally administered sustained-release hydromorphone in humans (CI) [Angst et al.], 63  
propofol alters the pharmacokinetics of alfentanil in healthy male volunteers (CI) [Mertens et al.], 949  
recirculatory pharmacokinetics and pharmacodynamics of rocuronium in patients (CI) [Kuipers et al.], 47  
relation between initial blood distribution volume and propofol induction dose requirement (CI) [Kazama et al.], 205  
response surface modeling of alfentanil-sevoflurane interaction on cardiorespiratory control and Bispectral Index (CI) [Dahan et al.], 982
- Pharmacology**  
cytochrome P-450 2B6 is responsible for interindividual variability of propofol hydroxylation by human liver microsomes (LI) [Court et al.], 110  
dantrolene: opening the anesthesiologist-proof packaging (CO) [Leighton and Mitchell], 379  
dantrolene: opening the anesthesiologist-proof packaging (CO) [Verst-Brasch], 380  
mathematical modeling of carbon monoxide exposures from anesthetic breakdown: effect of subject size, hematocrit, fraction of inspired oxygen, and quantity of carbon monoxide (LI) [Woehlck et al.], 457  
metabolic acidosis associated with a new formulation of propofol (CR) [Badr et al.], 536  
minimum local analgesic dose of intrathecal bupivacaine in labor and the effect of intrathecal fentanyl (CI) [Stocks et al.], 593  
physical factors affecting the production of carbon monoxide from anesthetic breakdown (LI) [Woehlck et al.], 453  
Tetzlaff, *Clinical Pharmacology of Local Anesthetics* (EM) [Butterworth], 382
- Platelets and platelet function.** See **Blood coagulation**
- Pneumonia**  
is ventilator-associated pneumonia an independent risk factor for death? (CI) [Bergeon et al.], 554  
what's new about ventilator-associated pneumonia (EV) [Kollef], 551
- Politics and publishing**  
clinical and experimental research in anesthesiology in Europe at the change of the millennium (CO) [Hofbauer et al.], 173  
the Cochrane Anesthesia Review Group (CO) [Møller et al.], 184  
measuring the influence of anesthesiologists' medical direction (CO) [Orkin], 713  
measuring the influence of anesthesiologists' medical direction (CO) [Silber], 714  
medical direction during anesthesia: what or who is the problem? (CO) [Kleinman], 713  
patient outcomes and "directed" anesthesia care (CO) [Obst], 712
- Positron emission tomography (PET)**  
dose-dependent regional cerebral blood flow changes during remifentanyl infusion in humans: a positron emission tomography study (CI) [Wagner et al.], 732
- Postoperative care**  
assessment of depth of anesthesia and postoperative respiratory recovery after remifentanyl *versus* alfentanil-based total intravenous anesthesia in patients undergoing ear-nose-throat surgery (CI) [Wuesten], 211  
preoperative anxiolysis and postoperative recovery in women undergoing abdominal hysterectomy (CI) [Kain et al.], 415  
speed of recovery and side-effect profile of sevoflurane sedation compared with midazolam (CI) [Ibrahim et al.], 87
- Postoperative complications**  
life-threatening upper airway obstruction after tongue base surgery (CR) [Szokol et al.], 532  
postoperative neuropathy following fascia iliaca compartment blockade (CR) [Atchabahan and Brown], 534  
prolonged coma after unreamed, locked nailing of femoral shaft fracture (CR) [Byrick et al.], 163
- Potassium and potassium channels**  
local anesthetic inhibition of voltage-activated potassium currents in rat dorsal root ganglion neurons (LI) [Komai and McDowell], 1089  
suppression of potassium conductance by droperidol has influence on excitability of spinal sensory neurons (LI) [Olschewski et al.], 280
- Povidone iodine**  
chlorhexidine *versus* povidone iodine in preventing colonization of continuous epidural catheters in children (CI) [Kinirons et al.], 239
- Preconditioning**  
effects of ketamine and its isomers on ischemic preconditioning in the isolated rat heart (LI) [Molajavi et al.], 623  
ketamine, but not S(+)-ketamine, blocks ischemic preconditioning in rabbit hearts *in vivo* (LI) [Müllenheim et al.], 630  
signal transduction of opioid-induced cardioprotection in ischemia-reperfusion (LI) [McPherson and Yao], 1082
- Preemptive analgesia**  
preemptive analgesic effects of ketorolac in ankle fracture surgery (CI) [Norman et al.], 599

**Premedication and sedation**

- Automated Responsiveness Test (ART) predicts loss of consciousness and adverse physiologic responses during propofol conscious sedation (CI) [Doufas et al.], 585
- benefits of parental presence outweigh risks (CO) [Lerman], 182
- benefits of parental presence outweigh risks (CO) [Watson], 182
- Krauss and Brustowicz, *Pediatric Procedural Sedation and Analgesia* (EM) [Schears], 186
- preoperative anxiolysis and postoperative recovery in women undergoing abdominal hysterectomy (CI) [Kain et al.], 415
- speed of recovery and side-effect profile of sevoflurane sedation compared with midazolam (CI) [Ibrahim et al.], 87

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